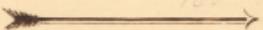


Thesis on
Dysentery.

by

Edwin P. Atlee of Philad^{la}



admitted March 10. 1821

for ~~the~~ ~~the~~
expenses
of ~~the~~ ~~the~~
Family

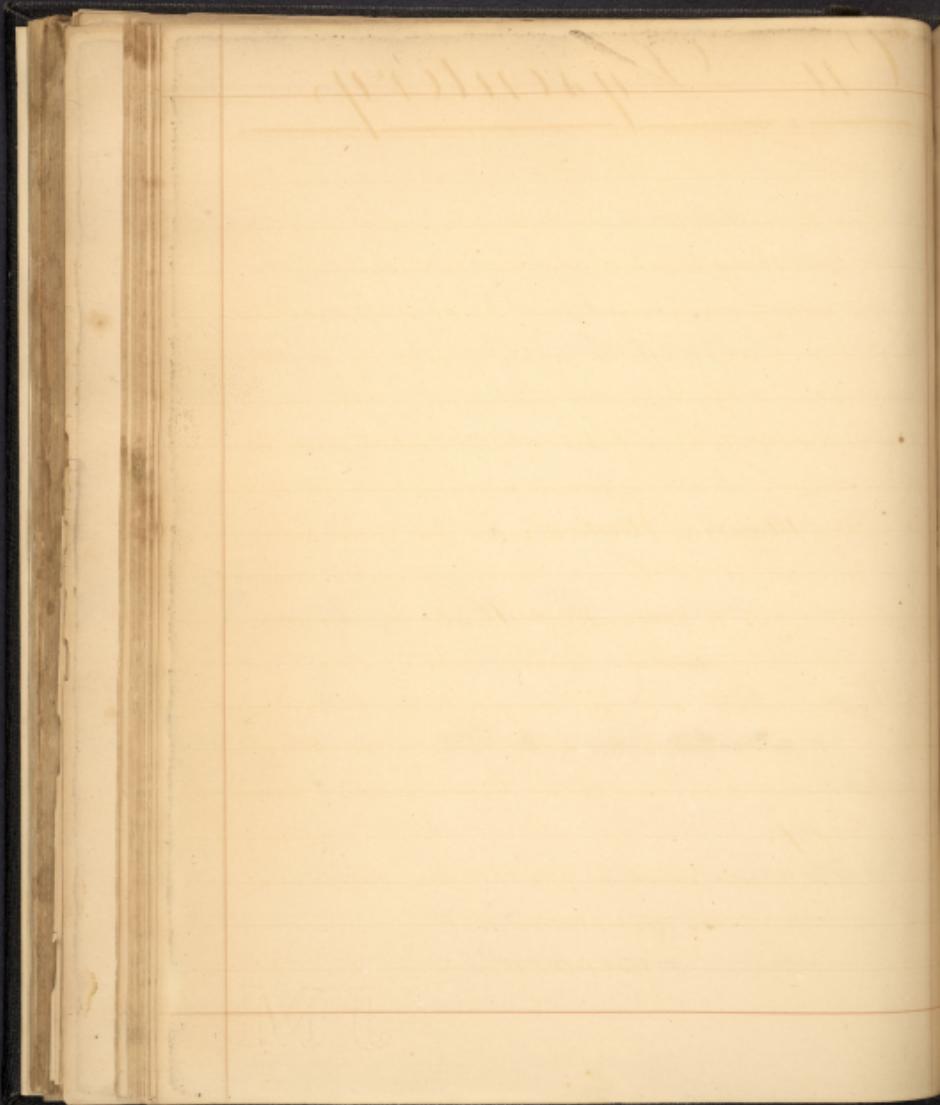
1821. of Joseph Miller

On Presenters

There is implanted in the human heart a desire to inflict something which is fine and interesting. In the heart of man, ancient, and highly honourable, the passion which affords ample opportunity for the satisfaction of this laudable ambition. The writer is intended to have taken up and established in his person, the character of a member belonging to the old Sorority Materia Medicorum; but his views have been interrupted by the insuperable difficulties which a student has to encounter. Should he, however, be enabled to have the rank of a good teacher, students he will exert the energies of his brain in endeavoring to leave a worthy record of the school which培養 him, most of the members of which are now lost.

The name which he has chosen, should be the subject of his dissertation in the Academy.

4 quantity.



On Dysentery.

There is, implanted in the human breast, a desire to impart something which is new, and interesting. In the pursuit of our ancient, and highly honourable profession, research affords ample opportunity for the gratification of this laudable ambition. The writer had intended to have taken up, and established, in some measure, the character of a newly-introduced article of the *Materia Medica*; but his views have been intercepted, by the insuperable difficulties, which a student has to encounter. Should he, however, receive the boon which he humbly asks at your hands, he trusts he will exert the energies of his limited understanding, to become a worthy child of the School which reared him, and of the Country which gave him birth.

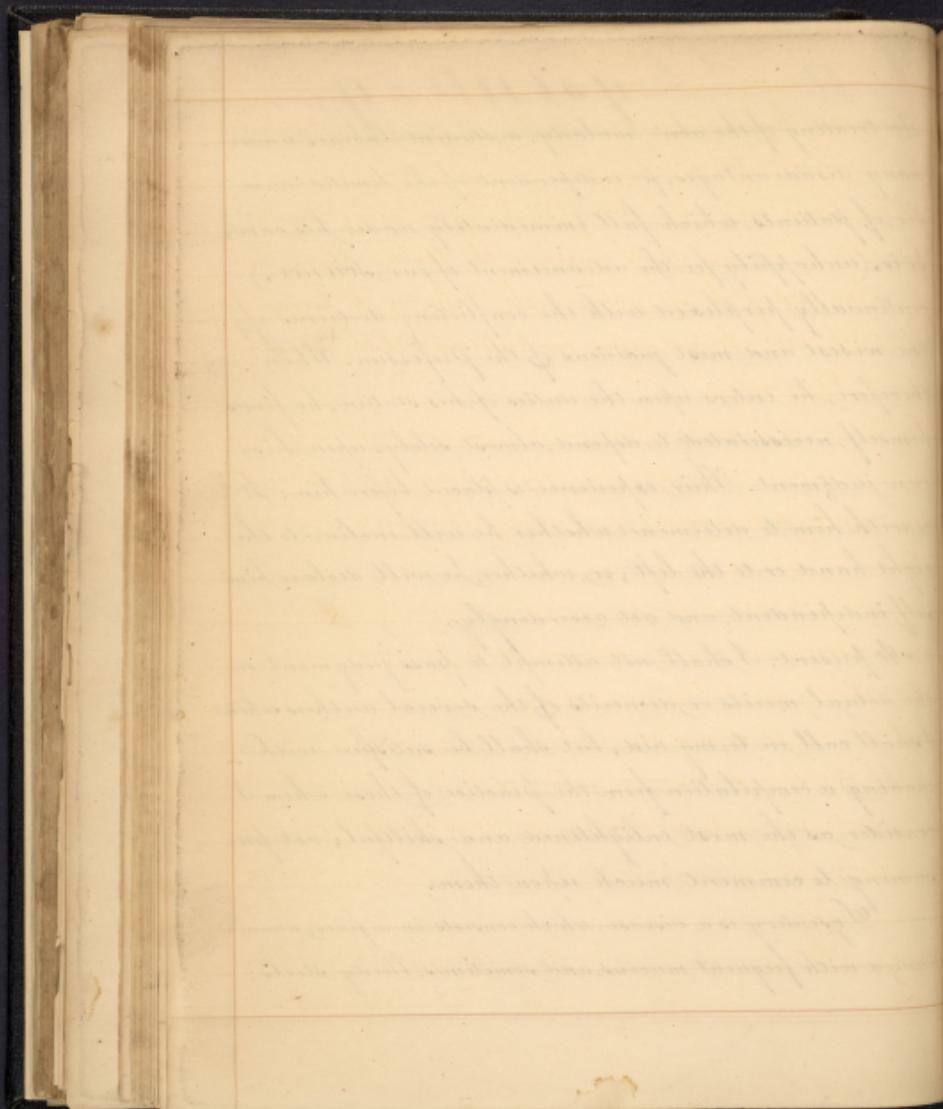
The disease which he has therefore chosen as the subject of his dissertation, is, the
Dysentery.

Apples are ripe.

In treating of the above malady, a student labours under many disadvantages; for independent of the limited number of patients, which fall immediately under his care, he is, (unhappily for the advancement of our science,) continually perplexed with the conflicting doctrines of the wisest and most judicious of the profession. When, therefore, he enters upon the duties of his station, he finds himself, necessitated to depend, almost, solely, upon his own judgment. This experience is placed before him: It is with him to determine whether he will incline to the right hand, or, to the left; or, whether, he will declare himself independent, and act accordingly.

At present, I shall not attempt to pass judgment on the actual merits or demerits of the several authors whom I shall call in to my aid, but shall be satisfied with making a compilation from the practice of those, whom I consider, as the most enlightened and skillful; not presuming to comment much upon them.

Dysentery is a disease, which consists in a fever, accompanied with frequent mucous, and sometimes, bloody stools;



attended with flatulency, termina, tenesmus, and a retention
of the natural faces.

This disease may occur at any season of the year, though
generally, it commences its march in the United States, about
the latter end of the seventh month (July) or the beginning
of the 8th. mo: (August,) and continues until the Twelfth
month (December.)

Limited, as is my experience in this disease, I am nevertheless
disposed to doubt the validity of the assertion that a specific
contagion, is to be considered as always the remote cause there-
of.*

The fact of its depending upon a morbid state of the Atmosphere,
for its dissemination, I consider, as clearly proven by the high-
est authorities which I have consulted.

While many instances are recorded wherein Dysentery has
attacked in succession several members of the same family, it
does not validate the conclusion, that it is communicated by
specific infection from one to another, and for the following
reasons.

First. That there is a peculiarity in the atmosphere predis-
posing

* Cullens First Series par: 1074.

110

111

112

113

114

115

116

117

118

119

120

121

122

123

124

125

126

127

128

129

130

131

132

133

134

135

136

137

138

139

140

141

142

143

144

145

146

147

148

149

150

151

152

153

154

155

156

157

158

159

160

161

162

163

164

165

166

167

168

169

170

171

172

173

174

175

176

177

178

179

180

181

182

183

184

185

186

187

188

189

190

191

192

193

194

195

196

197

198

199

200

201

202

203

204

205

206

207

208

209

210

211

212

213

214

215

216

217

218

219

220

221

222

223

224

225

226

227

228

229

230

231

232

233

234

235

236

237

238

239

240

241

242

243

244

245

246

247

248

249

250

251

252

253

254

255

256

257

258

259

260

261

262

263

264

265

266

267

268

269

270

271

272

273

274

275

276

277

278

279

280

281

282

283

284

285

286

287

288

289

290

291

292

293

294

295

296

297

298

299

300

301

302

303

304

305

306

307

308

309

310

311

312

313

314

315

316

317

318

319

320

321

322

323

324

325

326

327

328

329

330

331

332

333

334

335

336

337

338

339

340

341

342

343

344

345

346

347

348

349

350

351

352

353

354

355

356

357

358

359

360

361

362

363

364

365

366

367

368

369

370

371

372

373

374

375

376

377

378

379

380

381

382

383

384

385

386

387

388

389

390

391

392

393

394

395

396

397

398

399

400

401

402

403

404

405

406

407

408

409

410

411

412

413

414

415

416

417

418

419

420

421

422

423

424

425

426

427

428

429

430

431

432

433

434

435

436

437

438

439

440

441

442

443

444

445

446

447

448

449

450

451

452

453

454

455

456

457

458

459

460

461

462

463

464

465

466

467

468

469

470

471

472

473

474

475

476

477

478

479

480

481

482

483

484

485

486

487

488

489

490

491

492

493

494

495

496

497

498

499

500

501

502

503

504

505

506

507

508

509

510

511

512

513

514

515

516

517

518

519

520

521

522

523

524

525

526

527

528

529

530

531

532

533

534

535

536

537

538

539

540

541

542

543

544

545

546

547

548

549

550

551

552

553

554

555

556

557

558

559

560

561

562

563

564

565

566

567

568

569

570

571

572

573

574

575

576

577

578

579

580

581

582

583

584

585

586

587

588

589

590

591

592

593

594

595

596

597

598

599

600

601

602

603

604

605

606

607

608

609

610

611

612

613

614

615

616

617

618

619

620

621

622

623

624

625

626

627

628

629

630

631

632

633

634

635

636

637

638

639

640

641

642

643

644

645

646

647

648

649

650

651

652

653

654

655

656

657

658

659

660

661

662

663

664

665

666

667

668

669

660

661

662

663

664

665

666

667

668

669

670

671

672

673

674

675

676

677

678

679

680

681

682

683

684

685

686

687

688

689

690

691

692

693

694

695

696

697

698

699

700

701

702

703

704

705

706

707

708

709

710

711

712

713

714

715

716

717

718

719

720

721

722

723

724

725

726

727

728

729

720

721

722

723

724

725

726

727

728

729

730

731

732

733

734

735

736

737

738

739

730

731

732

733

734

735

736

737

738

739

740

741

742

743

744

745

746

747

748

749

740

741

742

743

744

745

746

747

748

749

750

751

752

753

754

755

756

757

758

759

750

751

752

753

754

755

756

757

758

759

760

761

762

763

764

765

766

767

768

769

760

761

762

763

764

765

766

767

768

769

770

771

772

773

774

775

776

777

778

779

770

771

772

773

774

775

776

777

778

779

780

781

782

783

784

785

786

787

788

789

780

781

782

783

784

785

786

787

788

789

790

791

792

793

794

795

796

797

798

799

790

791

792

793

794

795

796

797

798

799

800

801

802

803

804

805

806

807

808

809

800

801

802

803

804

805

806

807

808

809

810

811

812

813

814

815

816

817

818

819

810

811

812

813

814

815

816

817

818

819

820

821

822

823

824

825

826

827

828

829

820

821

822

823

824

825

826

827

828

829

830

831

832

833

834

835

836

837

838

839

830

831

832

833

834

835

836

837

838

839

840

841

842

843

844

845

846

847

848

849

840

841

842

843

844

845

846

847

848

849

850

851

852

853

854

855

856

857

858

859

850

851

852

853

854

855

856

857

858

859

860

861

862

863

864

865

866

867

868

869

860

861

862

863

864

865

866

867

868

869

870

871

872

873

874

875

876

877

878

879

870

871

872

873

874

875

876

877

878

879

880

881

882

883

884

885

886

887

888

889

880

881

882

883

884

885

886

887

888

889

890

891

892

893

894

895

896

897

898

899

890

891

892

893

894

895

896

897

898

899

900

901

902

903

904

905

906

907

908

909

900

901

902

903

904

905

906

907

908

909

910

911

912

913

914

915

916

917

918

919

910

911

912

913

914

915

916

917

918

919

920

921

922

923

924

925

926

927

928

929

920

921

922

923

924

925

926

927

928

929

930

931

932

933

934

935

936

937

938

939

930

931

932

933

934

935

936

937

938

939

940

941

942

943

944

945

946

947

948

949

940

941

942

943

944

945

946

947

948

949

950

951

952

953

954

955

956

957

958

959

950

951

952

953

954

955

956

957

958

959

960

961

962

963

964

965

966

967

968

969

960

961

962

963

964

965

966

967

968

969

970

971

972

973

974

975

976

977

978

979

970

971

972

973

974

975

976

977

978

979

980

981

982

983

984

985

986

987

988

989

980

981

982

983

984

985

986

987

988

989

990

991

992

993

994

995

996

997

998

999

990

991

992

993

994

995

996

997

998

999

1000

1001

1002

1003

1004

1005

1006

1007

1008

1009

1000

1001

1002

1003

1004

1005

1006

1007

1008

1009

1010

1011

1012

1013

1014

1015

1016

1017

1018

1019

1010

1011

1012

1013

1014

1015

1016

1017

1018

1019

1020

1021

1022

1023

1024

1025

1026

1027

1028

1029

1020

1021

1022

1023

1024

1025

1026

1027

1028

1029

1030

1031

1032

1033

1034

1035

1036

1037

1038

1039

1030

1031

1032

1033

1034

1035

1036

1037

1038

1039

1040

1041

1042

1043

1044

1045

1046

1047

1048

1049

1040

1041

1042

1043

1044

1045

1046

1047

1048

1049

1050

1051

1052

1053

1054

1055

1056

1057

1058

1059

1050

1051

1052

1053

1054

1055

1056

1057

1058

1059

1060

1061

1062

1063

1064

1065

1066

1067

1068

1069

1060

1061

1062

1063

1064

1065

1066

1067

1068

1069

1070

1071

1072

1073

1074

1075

1076

1077

1078

1079

1070

1071

1072

1073

1074

1075

1076

1077

1078

1079

1080

1081

1082

1083

1084

1085

1086

1087

1088

1089

1080

1081

1082

1083

1084

1085

1086

1087

1088

1089

1090

1091

1092

1093

1094

1095

1096

1097

1098

1099

1090

1091

1092

1093

1094

1095

1096

1097

1098

1099

1100

1101

1102

1103

1104

1105

1106

1107

1108

1109

1100

1101

1102

1103

1104

1105

1106

1107

1108

1109

1110

1111

1112

1113

1114

1115

1116

1117

1118

1119

1110

1111

1112

1113

1114

1115

1116

1117

1118

1119

1120

1121

1122

1123

1124

1125

1126

1127

1128

1129

1120

1121

1122

1123

1124

1125

1126

1127

1128

1129

1130

1131

1132

1133

1134

1135

1136

1137

1138

1139

1130

1131

1132

1133

1134

1135

1136

1137

1138

1139

1140

1141

1142

1143

1144

1145

1146

1147

1148

1149

1140

1141

1142

1143

1144

1145

1146

1147

1148

1149

1150

1151

1152

1153

1154

1155

1156

1157

1158

1159

1150

1151

1152

1153

1154

1155

1156

1157

1158

1159

1160

1161

1162

1163

11

posing the body to disease, and determining what that disease may be, by local situation. Hence we find Dysenteries prevailing on high grounds, while Fevers obtain in the valleys in their immediate vicinity.

Secondly. That the appearance of Dysentery in Camps and Hospitals, does not militate against those who deny its infectious nature, because we find it appearing after tedious marches, exposure to inclement weather, and at that season of the year when there are sudden changes from heat to cold; all these are predisposing causes.

But, it may be asked, why does it attack one, and another, and another, in an apparently gradual succession, until the whole are under its influence? Why is it that when patients are early removed from these large assemblies, the disease is more mild, and that when the healthy are separated from the rest, it disappears? Because, a predisposition existing owing to atmospheric impurity, the vitiated state of the air of Hospitals and Camps, combined with what at first was impure, renders it still more so, and necessarily increases its virulence: and vice versa.

So much then, in consideration of the infectious character, of Dysentery. In support of my position I refer to Professor Chapman; Professor Caldwell; Sydenham[†]; Willis[‡]; &c &c.

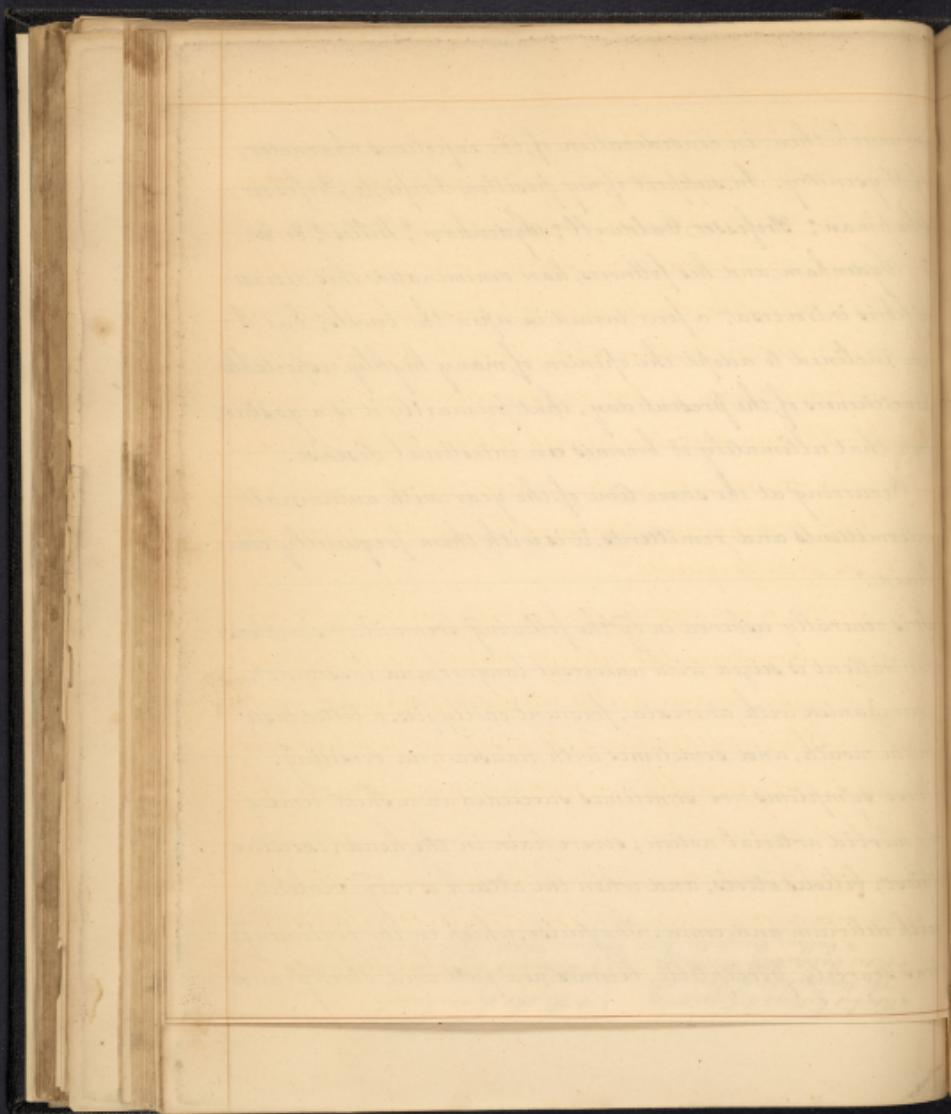
Sydenham, and his followers, have denominated this disease, a "febris introversa;" a fever turned in upon the bowels; but I am inclined to adopt the opinion of many highly respectable practitioners of the present day, that primarily it is a gastric, but, that ultimately it becomes an intestinal disease.

Occurring at the same time of the year, with autumnal intermitents and remittents, it is with them frequently combined.[§]

It is generally ushered in by the following premonitory symptoms: The patient is seized with universal languor, and lassitude; accompanied with anorexia, frequent chilly fits, a bitter taste in the mouth, and sometimes with nausea and vomiting. These symptoms are sometimes succeeded in a short time, by morbid arterial action; severe pain in the head; excessive thirst; bilious stools; and when the attack is very violent, with delirium and coma. The pulse, which in the beginning, was scarcely perceptible, becomes now full and strong, and

* Vide his lectures delivered in
the University of Pennsylvania.
† Vide Caldwell's Cullen.
§ Cullen. Pringle. Arm. Bligh. Minor. Sydenham. &c.

† Rush's Sydenham.
‡ Pharsus. Pat: Soc. 1. cap. III.

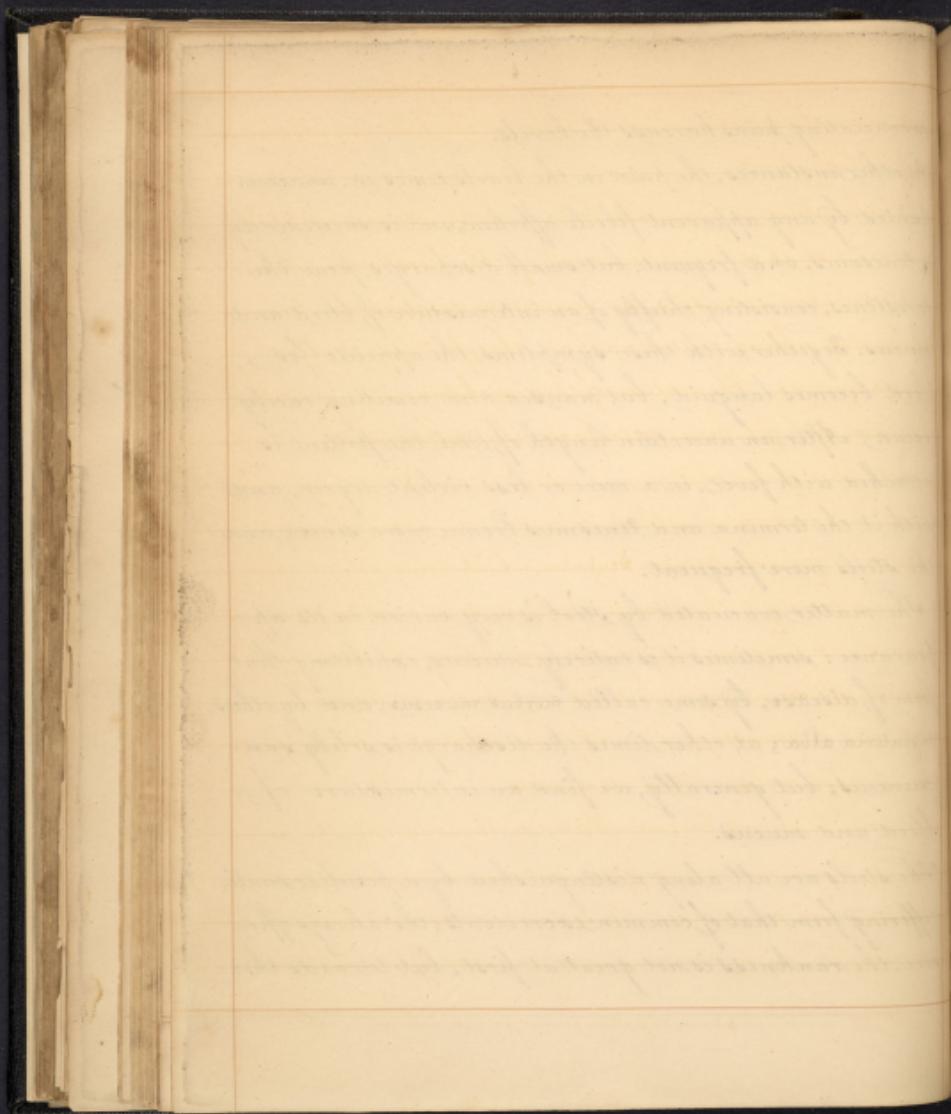


excruciating pains harrass the bowels.

In other instances, the pain in the bowels comes on, unaccompanied by any apparent febrile affection, and is succeeded by a tenesmus, and frequent, but small discharges, from the intestines, consisting chiefly of an intermixture of blood and mucus. Together with these symptoms, the appetite for food becomes languid, but nausea and vomiting rarely occurs. After an uncertain length of time, the patient is attacked with fever, in a more or less violent degree, and with it the tenesmus and tenesmus become more severe, and the stools more frequent.

The matter evacuated by stool is very varied in its appearance: sometimes it is entirely mucous, exhibiting that form of disease, by some called *merbus mucusus*; and by others, *dyenturia alba*; at other times the discharge is solely sanguineous; but generally, we find an intermixture of blood and mucus.

The stools are all along distinguished by a peculiar smell, differing from that of common excrements; they always offensive, the rankness is not great at first, but towards the



end, when the intestines begin to mortify, the humor is cadaverous and intolerable.*

Authors have noticed membrane-like substances, supposed to be abrasions of the villous coat of the intestines. Also, white sebaceous masses are sometimes discharged per anum, resembling suet, and have therefore been called corpora pinguis. The nature of these substances, however, has, I believe, not yet been satisfactorily determined.

We have stated that the evacuations by stool are very frequent, yet these excretions are seldom natural, and appear in small indurated masses, termed *degbala*, which being voided, afford temporary relief to the agonized patient, from *terminal tenesmus*. Some speak of worms being discharged during the course of the disease *per os*, & *per anum*, but this may be considered as an adventitious circumstance. A proctentia ani and suppuration of urine are sometimes attendants.

When the bowels become affected with gangrene, the patient no longer complains of pain or tenesmus; the pulse sinks; delirium and coma generally supervene; in some instances, however, the mind remains sane and unruffled until death.

* Pringle.

† Baker's *De Dysenteria Lond:* 1762 — Pringle. 40.

The stomach is, in some cases, so highly irritable, that the greatest difficulty is experienced, in producing a pacification.

Dissections present the intestines, (particularly the colon and rectum) in a highly inflamed and sometimes mortified state; also, erosions, scirrhosities, ulceration, contractions, and gangrene. The peritoneum and other coverings of the abdomen in many instances, have likewise an inflammatory appearance.

For much interesting matter, as regards post mortem researches, I refer to Pringle & Cleghorn.

From what has been stated, we may with safety conclude, that the Dysentery chiefly prevails at the same season of this year, with Intermittent and Remittent Fevers, and that it arises from the same causes, in general, by which they are produced.

CAUSES.

Much has been said respecting the causes of Dysentery, but nothing satisfactory has been offered, by those practitioners, whose

Academy.

17

opinions I have read; there is good reason, however, to admit, that among the predisposing causes are to be enumerated, extremes in the weather, from hot and dry, to cool and damp or rainy; debility of body, either in consequence of previous disease, the undue operation of the depressing passions of the mind, or intemperance in eating or drinking, and excessive fatigues. The exciting causes are, the application of cold, marsh or human miasma; a suppression of the accustomed perspiration; and possibly, acrid, irritating, substances taken into the stomach.

— Treatment. —

Whatever the cause of Dysentery may be, the indications of cure appear to be the same, namely;

- 1st. To overcome the inflammatory stricture of the intestines, or, in other words, to allay violent pain, and fever.
- 2nd. To preserve the bowels soluble until all spasm, pain, and fever, have disappeared.
- 3rd. To restore the healthy action of the skin.
- 4th. To restore the tone of the alimentary canal.

— *Montmore* —

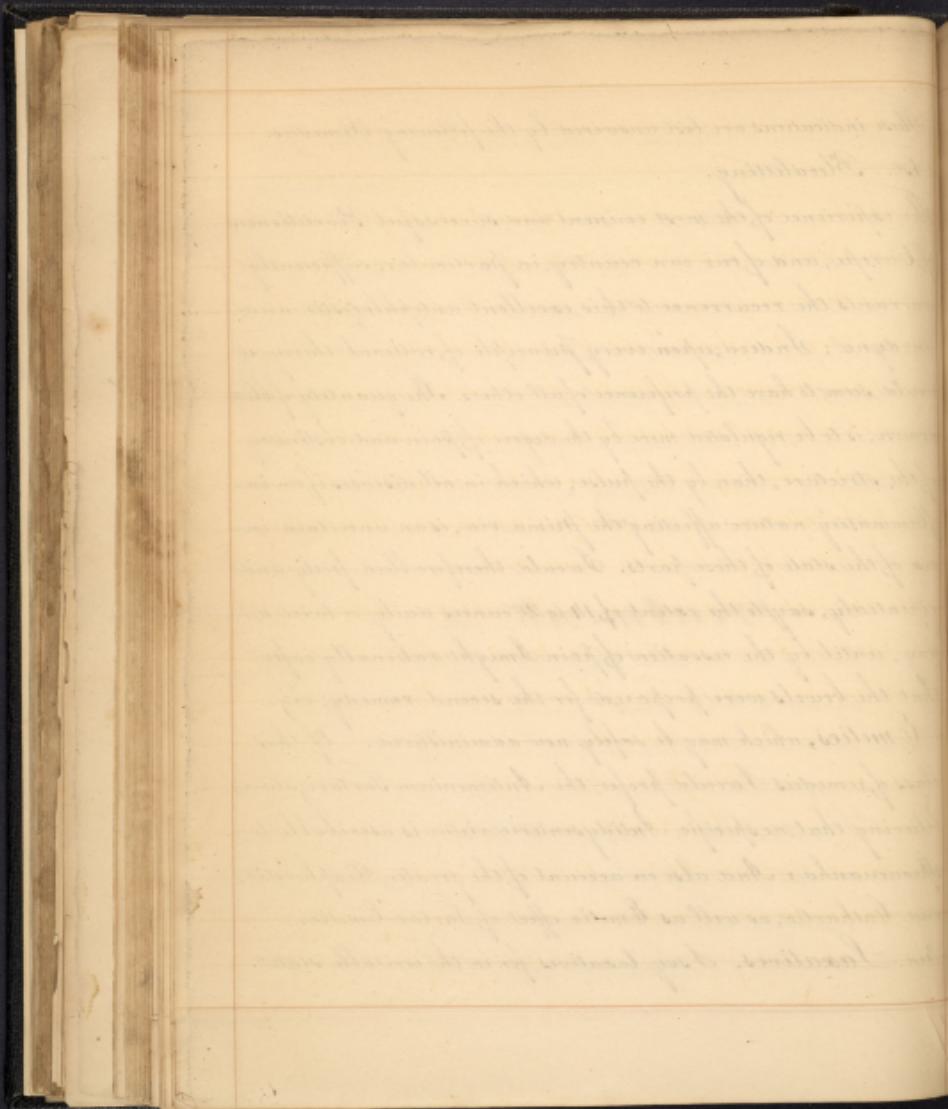
These indications are best answered by the following Remedies.

1st. *Bloodletting.*

The experience of the most eminent and successful Practitioners of Europe, and of our own country, in particular, sufficiently warrants the recurrence to this excellent antiphlogistic and anodyne: Indeed, upon every principle of rational theory, it would seem to have the preference of all others. The quantity of blood drawn, is to be regulated more by the degree of pain and obstinacy of the stricture, than by the pulse, which in all diseases of an inflammatory nature affecting the *prima via*, is an uncertain index of the state of those parts. I would therefore bleed freely and repeatedly, say to the extent of 14 to 20 ounces daily, or twice a day, until by the cessation of pain I might rationally infer, that the bowels were prepared for the second remedy, viz:

Emetics, which may be safely now administered. Of this class of remedies I would prefer the *Antimonium Tartarizatum*, believing that no specific *Antidysenteric* virtue is ascribable to *Shecauanha*: And also on account of the greater *Deaphoretic*, and *Cathartic*, as well as *Emetic* effect of *Tartar Emetic*.

2d. *Laxatives*. I say laxatives, for in the irritable state



of the affected parts, it is presumable that purgatives, especially of the drastic kind, would be likely to renew the train of distressing symptoms. Among the mild and efficient astringeant evacuants, the Oleum Ricini is deserving of primary attention, and should be given in the dose of half an ounce, in a little Lemonade, or Mint Water, every 2nd hour until two or three faecal evacuations have been procured. If the Oil should not be retained on the Stomach, an excellent substitute is, a solution of Sapphas Soda, in a strong infusion of Camomile, say 2 ounces of the salt, in a Pint of the infusion: a wineglassful to be given at intervals of 2 hours until faeces be freely evacuated.

Another valuable medicine is the Protochloride (Submuriate) of Mercury, in combination with Salap, to which the Oleum Anisi. may be added by way of Carminative, thus,

R. Cal. p. f. 3js.

Palv. Salap. 3j.

Ole. Anisi. 3. t.

Heisse, et divid: in Ch. & v. Sumat ager unam omni biberie
donee bene operaverint. (This however borders on the purgative)
As auxiliaries, the patient may drink freely of barley-water,

* This valuable mucilage, or that of Gum Arabic or Flax seed Tea, with the addition of Laudanum, forms an Cinema, peculiarly calculated to obviate the extreme irritability, and consequent Tenesmus so characteristic of the disease.

Melted butter, free from salt & rancidity, in the proportion of 3 gills or half a pint, as an injection, is highly salutary. †

linsued tea, thin eaten gruel, balm tea, or mucilage of slippery Elm. *

To any of the above laxatives, Laudanum may be added, according to the judgment of the physician, in case of severe pain of the bowels, without fear of obviating their desired effect.

4th After having freely used laxatives until the peculiar dysenteric evacuations have yielded to what I might call laudable stools; it will be proper to divert the determination to the skin, by Diaphoretics, the best of which, I consider the Pilvis Specacuanha Compositus or Dovers Powder, in doses of 6s. v. every 4th. hour, continued for one or 2 days; aiding their effects by tepid herb teas, such as Balm, Sage, Tittany, Horsemint, Camemile, &c.

5th It is not to be forgotten, that a large Epispastic over the abdomen is one of the indispensables, in cases where great irritability prevails. If the Stomach cannot be pacified by the usual internal remedies, a blister must be applied over the epigastric region.

6th Having thus, as will generally be the case, overcome the disease, it remains to restore the tone of the alimentary canal.

100

101

102

103

104

105

106

107

108

109

110

111

112

113

114

115

116

117

118

119

120

121

122

123

124

125

126

127

128

129

130

131

132

133

134

135

136

137

138

139

140

141

142

143

144

145

146

147

148

149

150

151

152

153

154

155

156

157

158

159

160

161

162

163

164

165

166

167

168

169

170

171

172

173

174

175

176

177

178

179

180

181

182

183

184

185

186

187

188

189

190

191

192

193

194

195

196

197

198

199

200

201

202

203

204

205

206

207

208

209

210

211

212

213

214

215

216

217

218

219

220

221

222

223

224

225

226

227

228

229

230

231

232

233

234

235

236

237

238

239

240

241

242

243

244

245

246

247

248

249

250

251

252

253

254

255

256

257

258

259

260

261

262

263

264

265

266

267

268

269

270

271

272

273

274

275

276

277

278

279

280

281

282

283

284

285

286

287

288

289

290

291

292

293

294

295

296

297

298

299

300

301

302

303

304

305

306

307

308

309

310

311

312

313

314

315

316

317

318

319

320

321

322

323

324

325

326

327

328

329

330

331

332

333

334

335

336

337

338

339

340

341

342

343

344

345

346

347

348

349

350

351

352

353

354

355

356

357

358

359

360

361

362

363

364

365

366

367

368

369

370

371

372

373

374

375

376

377

378

379

380

381

382

383

384

385

386

387

388

389

390

391

392

393

394

395

396

397

398

399

400

401

402

403

404

405

406

407

408

409

410

411

412

413

414

415

416

417

418

419

420

421

422

423

424

425

426

427

428

429

430

431

432

433

434

435

436

437

438

439

440

441

442

443

444

445

446

447

448

449

450

451

452

453

454

455

456

457

458

459

460

461

462

463

464

465

466

467

468

469

470

471

472

473

474

475

476

477

478

479

480

481

482

483

484

485

486

487

488

489

490

491

492

493

494

495

496

497

498

499

500

501

502

503

504

505

506

507

508

509

510

511

512

513

514

515

516

517

518

519

520

521

522

523

524

525

526

527

528

529

530

531

532

533

534

535

536

537

538

539

540

541

542

543

544

545

546

547

548

549

550

551

552

553

554

555

556

557

558

559

560

561

562

563

564

565

566

567

568

569

570

571

572

573

574

575

576

577

578

579

580

581

582

583

584

585

586

587

588

589

590

591

592

593

594

595

596

597

598

599

600

601

602

603

604

605

606

607

608

609

610

611

612

613

614

615

616

617

618

619

620

621

622

623

624

625

626

627

628

629

630

631

632

633

634

635

636

637

638

639

640

641

642

643

644

645

646

647

648

649

650

651

652

653

654

655

656

657

658

659

660

661

662

663

664

665

666

667

668

669

660

661

662

663

664

665

666

667

668

669

670

671

672

673

674

675

676

677

678

679

680

681

682

683

684

685

686

687

688

689

690

691

692

693

694

695

696

697

698

699

700

701

702

703

704

705

706

707

708

709

710

711

712

713

714

715

716

717

718

719

720

721

722

723

724

725

726

727

728

729

720

721

722

723

724

725

726

727

728

729

730

731

732

733

734

735

736

737

738

739

730

731

732

733

734

735

736

737

738

739

740

741

742

743

744

745

746

747

748

749

740

741

742

743

744

745

746

747

748

749

750

751

752

753

754

755

756

757

758

759

750

751

752

753

754

755

756

757

758

759

760

761

762

763

764

765

766

767

768

769

760

761

762

763

764

765

766

767

768

769

770

771

772

773

774

775

776

777

778

779

770

771

772

773

774

775

776

777

778

779

780

781

782

783

784

785

786

787

788

789

780

781

782

783

784

785

786

787

788

789

790

791

792

793

794

795

796

797

798

799

790

791

792

793

794

795

796

797

798

799

800

801

802

803

804

805

806

807

808

809

800

801

802

803

804

805

806

807

808

809

810

811

812

813

814

815

816

817

818

819

810

811

812

813

814

815

816

817

818

819

820

821

822

823

824

825

826

827

828

829

820

821

822

823

824

825

826

827

828

829

830

831

832

833

834

835

836

837

838

839

830

831

832

833

834

835

836

837

838

839

840

841

842

843

844

845

846

847

848

849

840

841

842

843

844

845

846

847

848

849

850

851

852

853

854

855

856

857

858

859

850

851

852

853

854

855

856

857

858

859

860

861

862

863

864

865

866

867

868

869

860

861

862

863

864

865

866

867

868

869

870

871

872

873

874

875

876

877

878

879

870

871

872

873

874

875

876

877

878

879

880

881

882

883

884

885

886

887

888

889

880

881

882

883

884

885

886

887

888

889

890

891

892

893

894

895

896

897

898

899

890

891

892

893

894

895

896

897

898

899

900

901

902

903

904

905

906

907

908

909

900

901

902

903

904

905

906

907

908

909

910

911

912

913

914

915

916

917

918

919

910

911

912

913

914

915

916

917

918

919

920

921

922

923

924

925

926

927

928

929

920

921

922

923

924

925

926

927

928

929

930

931

932

933

934

935

936

937

938

939

930

931

932

933

934

935

936

937

938

939

940

941

942

943

944

945

946

947

948

949

940

941

942

943

944

945

946

947

948

949

950

951

952

953

954

955

956

957

958

959

950

951

952

953

954

955

956

957

958

959

960

961

962

963

964

965

966

967

968

969

960

961

962

963

964

965

966

967

968

969

970

971

972

973

974

975

976

977

978

979

970

971

972

973

974

975

976

977

978

979

980

981

982

983

984

985

986

987

988

989

980

981

982

983

984

985

986

987

988

989

990

991

992

993

994

995

996

997

998

999

990

991

992

993

994

995

996

997

998

999

1000

1001

1002

1003

1004

1005

1006

1007

1008

1009

1000

1001

1002

1003

1004

1005

1006

1007

1008

1009

1010

1011

1012

1013

1014

1015

1016

1017

1018

1019

1010

1011

1012

1013

1014

1015

1016

1017

1018

1019

1020

1021

1022

1023

1024

1025

1026

1027

1028

1029

1020

1021

1022

1023

1024

1025

1026

1027

1028

1029

1030

1031

1032

1033

1034

1035

1036

1037

1038

1039

1030

1031

1032

1033

1034

1035

1036

1037

1038

1039

1040

1041

1042

1043

1044

1045

1046

1047

1048

1049

1040

1041

1042

1043

1044

1045

1046

1047

1048

1049

1050

1051

1052

1053

1054

1055

1056

1057

1058

1059

1050

1051

1052

1053

1054

1055

1056

1057

1058

1059

1060

1061

1062

1063

1064

1065

1066

1067

1068

1069

1060

1061

1062

1063

1064

1065

1066

1067

1068

1069

1070

1071

1072

1073

1074

1075

1076

1077

1078

1079

1070

1071

1072

1073

1074

1075

1076

1077

1078

1079

1080

1081

1082

1083

1084

1085

1086

1087

1088

1089

1080

1081

1082

1083

1084

1085

1086

1087

1088

1089

1090

1091

1092

1093

1094

1095

1096

1097

1098

1099

1090

1091

1092

1093

1094

1095

1096

1097

1098

1099

1100

1101

1102

1103

1104

1105

1106

1107

1108

1109

1100

1101

1102

1103

1104

1105

1106

1107

1108

1109

1110

1111

1112

1113

1114

1115

1116

1117

1118

1119

1110

1111

1112

1113

1114

1115

1116

1117

1118

1119

1120

1121

1122

1123

1124

1125

1126

1127

1128

1129

1120

1121

1122

1123

1124

1125

1126

1127

1128

1129

1130

1131

1132

1133

1134

1135

1136

1137

1138

1139

1130

1131

1132

1133

1134

1135

1136

1137

1138

1139

1140

1141

1142

1143

1144

1145

1146

1147

1148

1149

1140

1141

1142

1143

1144

1145

1146

1147

1148

1149

1150

1151

1152

1153

1154

1155

1156

1157

1158

1159

1150

1151

1152

1153

1154

11

This is effected by the class of Tonics, which ought to be used with caution, commencing with the milder and changing to those of a more powerful kind. I would first use the Serpentaria and Cort. Aurant.; next the Rhubarb in small doses, then Cort. Cinchona. During the use of these, the Nutrientia properly come in, such as, animal broths, jellies, oysters, soft-boiled eggs, fowls, with Porter, Ale, Madeira, sound Cyder, and the like.

In aid of the tonics, riding on horse-back, when practicable, ought not to be omitted.

Thomas Page
written March 17. 1821

